4. З STRUCTURAL ĹП Τ. ĹΠ $\bar{\mathbb{Q}}$ $\dot{\Omega}$ CAST D. \mathcal{C} $\overline{\mathbb{D}}$ G. Ω ⋋ DESIGN LOADS $\dot{\mathbb{D}}$ SPREAD FOOTING FOUNDATIONS \Box BUILDING CODES 1. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
2. ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
3. ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION
AND MATERIALS"
4. ACI 305 "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING"
5. ACI 306 "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING"
6. ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORM WORK"
7. ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
8. CRSI "MANUAL OF STANDARD PRACTICE" REFER TO "
STANDARDS. CON(1. 2. REINF 1. S 2. P IN ADDITION TO LOADS: THE 2009 INTERNATIONAL SUPPLEMENTS FLORIDA BUILDING CODE, ALL EXISTING SOIL CONTAINING GRAVEL, CONSTRUCTION OR DEMOLITION DEBRIS, ORGANIC SUBSTANCES, OR OTHER FOREIGN OBJECTS SHALL BE REMOVED FROM THE REGION WITHIN THE FOOTPRINT OF THE STRUCTURE. ALL EXCAVATION AND BACKFILLING OPERATIONS WITHIN THE BUILDING FOOTPRINT, INCLUDING ALL COMPACTION TESTS AND INSPECTIONS, SHALL BE DONE UNDER THE DIRECTION AND SUPERVISION OF A REGISTERED GEOTECHNICAL ENGINEER. REFER TO PROJECT GEOTECHNICAL REPORT BY KCI TECHNOLOGIES, INC. DATED 11/2011 FOR SITE PREPARATION AND RECOMMENDATIONS. ALL STAIRS, RAILINGS, STUD WALLS, GLASS STORE FRONT, AND EXTERIOR CEILINGS AND SOFFITS SHALL BE DESIGNED FOR THE LOADS INDICATED OR SPECIFIED BY THE BUILDING CODE. THE FRAMING HAS BEEN DESIGNED FOR THE WEIGHT OF EQUIPMENT SHOWN ON THE STRUCTURAL DRAWINGS. IF ACTUAL WEIGHT OF EQUIPMENT EXCEEDS THAT SHOWN OR IF EQUIPMENT NOT SHOWN EXCEEDS 500 POUNDS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. THE STABILITY OF THE STRUCTURE IS DEPENDENT UPON THE DIAPHRAGM ACTION OF THE FLOORS AND ROOF. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR THE METHOD OF CONSTRUCTION AND SHALL PROVIDE ALL TEMPORARY BRACING AND SHORING REQUIRED TO MAINTAIN THE STABILITY OF THE STRUCTURE AND TO SUPPORT CONSTRUCTION LOADS DURING CONSTRUCTION, INCLUDING SOILS ON WALLS FROM BACKFILLING PRIOR TO PLACING SLABS ON GRADE. DESIGN OF ALL BRACING IS THE CONTRACTORS RESPONSIBILITY. WIND ROOF 5 THE ALLOWABLE SOIL BEARING PRESSURE SHALL BE FIELD VERIFIED BY A REGISTERED GEOTECHNICAL ENGINEER AND APPROVED PRIOR TO PLACING FOUNDATIONS. SHOULD THE ACTUAL SOIL BEARING PRESSURE BE LESS THAN 2500 PSF, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. THE CONTRACTOR SHALL NOT STORE ANY CONSTRUCTION MATERIALS OR UNDERTAKE ANY CONSTRUCTION OPERATION WHICH WILL EXCEED THE DESIGN LIVE LOADINGS NOTED. EARTHQUAKE LOAD DESIGN CRITERIA: CONCRETE MATERIALS:

1. PORTLAND CEMENT: ASTM C 150, TYPE I/II

2. FLY ASH: ASTM C 618, CLASS F

3. GROUND GRANULATED BLAST FURNACE SLAG: ASTM C 989, GRADE 120

4. NORMAL WEIGHT AGGREGATES: ASTM C 33

a. MAXIMUM COARSE AGGREGATE SIZE: 1 INCH NOMINAL

b. FINE AGGREGATE SHALL BE FREE OF MATERIAL WITH DELETERIOUS

REACTIVITY TO ALKALI IN CEMENT.

5. LIGHT WEIGHT AGGREGATES: ASTM C 330, 1 INCH NOMINAL MAXIMUM

AGGREGATE SIZE

6. WATER: ASTM C 94, POTABLE IN PLACE CONCRETE NOTES EQUIVALENT LATERAL FORCE FACUL:

SEISMIC USE GROUP:

IMPORTANCE FACTOR (1):

MAPPED SPECTRAL RESPONSE ACCELERATIONS (Ss) = 0

(S1) = 0

(S1) = 0

(SDS) = 0

(SDS) = 0 MINIMUM DEPTH TO BOTTOM OF EXTER GRADE NET ALLOWABLE BEARING CAPACITY = FORCING MATERIALS:
STEEL REINFORCEMENT:
PLAIN—STEEL WELDED WIRE REINFORCEMENT: SOIL SITE CLASS:
SEISMIC RESPONSE COEFFICIENT (Cs):
RESPONSE MODIFICATION FACTOR (R):
DESIGN BASE SHEAR (V): RISK CATEGORY:

BASIC WIND SPEED

WIND EXPOSURE

INTERNAL PRESSURE COEFFICIENT (GCpi):

IMPORTANCE FACTOR (I):

1.0 LOAD SNOW LOAD DESIGN CRITERIA GROUND SNOW LOAD (Pg): FLAT ROOF SNOW LOAD (Pf) EXPOSURE FACTOR (Ce): IMPORTANCE FACTOR (I): THERMAL FACTOR (Ct): "CAST IN PLACE CONCRETE" FOR APPLICABLE CODES AND DESIGN CRITERIA: SELF FLOOR CODE, TO BOTTOM OF EXTERIOR FOOTINGS = WEIGHT, 2010 BUILDING LIVE 100 20 F THE BUILDING PSF PSF CODE (IBC) 2500 PSF E 0.026 3.25 (ORD STEEL FRAME) 7.2 KIP $\overline{\circ}$ SUPERIMPO 10 P 10 P 0 1.0 1.0 AND DESIGNED GRADE ASTM 0.85 ALL = 0.080 = 0.050 = 0.085) = 0.08060, DEFORMED A 185 SUBSEQUENT 18 IN BELOW DEAD GRADE 120 CONCRETE MASONRY THE CONCRETE STRUCTURE SHALL NOT SUPPORT MINIMUM OF 28 DAYS AND ALL SHORING AND RE SUPPORT THE CONCRETE STRUCTURE DURING CO DESIGNED AND PROVIDED BY THE CONTRACTOR. SEALED BY A REGISTERED ENGINEER IN THE STATSUBMITTED FOR REVIEW. SHOP DRAWINGS SHALL SIZE, AND LOCATION OF ALL SHORING AND RESH SEQUENCE OF CONSTRUCTION. FOUNDATIONS SLABS ON GRADE WALLS BELOW GRADE SUBMITTALS:

1. MATERIAL CERTIFICATES FOR MASONRY UNITS, GROUT MIXES, MORTAR MIXES, REINFORCEMENT, AND ANCHORS/TIES

2. SHOP DRAWINGS INCLUDING DETAIL BENDING AND PLACEMENT OF UNIT MASONRY REINFORCING

3. ADDITIONAL SAMPLE SUBMITTALS MAY BE REQUIRED BY ARCHITECT/OWNER. REFER TO ARCHITECTURAL DRAWINGS. CODE: MINIMUM COVER FOR ALL OTHERWISE INDICATED: PROPORTION NORMAL WEIGHT CONCRETE MIXES AS L CONCRETE MIX DESIGNS, INCLUDING CEMENT CONTENT, WATER CEMENT TIO, FINE AND COARSE AGGREGATE CONTENT AND ALL ADMIXTURES, SHALL VIEWED BY ENGINEER PRIOR TO PLACING FIRST CONCRETE. L CONCRETE SHALL BE SAMPLED AND TESTED BY THE TESTING AGENCY. NTRACTOR SHALL NOTIFY THE TESTING AGENCY 48 HOURS PRIOR TO THE ACING OF ANY CONCRETE. LOCATION TE MIXTURES:

ASH, POZZOLAN, GROUND GRANULATED BLAST FURNACE SLAG, AN CA FUME MAY BE USED AS NEEDED TO REDUCE THE TOTAL AMOUNT TLAND CEMENT WHICH WOULD OTHERWISE BE USED BY NOT MORE PERCENT.

MAXIMUM SUBSTITUTION OF FLY ASH SHALL BE 20 PERCENT.

MAXIMUM SUBSTITUTION OF SILICA FUME SHALL BE 10 PERCENT 530.1/ASCE 6/TMS 602 "SPECIFICATIONS FOR MASONRY STRUCTURES 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" CAL WALL REINFORCING SHALL BE CUT AND LAP SPLICED PER DETAILS MAXIMUM 5'-0" GROUT LIFTS. MASONRY CORES CONTAINING VERTICAL FORCING SHALL BE GROUTED SOLID.

CONTRACTOR SHALL PROVIDE HOLLOW BLOCK FILLED SOLID WITH JT DIRECTLY BELOW ALL CHANGES IN WALL THICKNESS.

CONTRACTOR SHALL PROVIDE A 1 INCH SOFT JOINT BETWEEN TOP OF -BEARING MASONRY WALLS AND THE UNDERSIDE OF THE STRUCTURAL PROVIDE A 1 INCH SOFT JOINT BETWEEN TOP OF BEARING MASONRY WALL BE PLACED IN THE MASONRY WALL TO FORM LIS WITH A LENGTH TO HEIGHT RATIO OF 2.5 OR LESS. THE MAXIMUM LENGTH SHALL NOT EXCEED 45 FEET. ADDITIONAL JOINTS SHALL CALL OCCUR.

SS OTHERWISE NOTED, ANCHOR WOOD SILL PLATES TO THE MASONRY IN USING 1/2" DIAMETER X 0'-7" LONG ASTM F 1554, GRADE 36

S SPACED AT 6' -0" MAXIMUM,

RACTOR IS RESPONSIBLE FOR BRACING AND SHORING OF ALL MASONRY IN STALLED. MASONRY ASSEMBLIES SHALL HAVE A MINIMUM COMPRESSIVE AT 28 DAYS (f'm) OF 1500 PSI.
EIGHT HOLLOW LOAD BEARING CONCRETE MASONRY UNITS: ASTN 1 UNIT NET AREA COMPRESSIVE STRENGTH OF 1900 PSI.
IN-I BLOCK BELOW GRADE AND WHERE BLOCK IS SUBJECTED IOISTURE PENETRATION, OTHERWISE PROVIDE GRADE S-I OR N-I ONTRACTOR'S OPTION.
LIME MORTAR: ASTM 6 970 ED STEEL REINFORCING BARS: ASTN NTAL JOINT REINFORCEMENT: ASTM TYPE WITH MINIMUM 3/16 INCH DIA LL—GALVANIZED CARBON STEEL WIRE ETER WITH ASTM A 641, CLASS 1 CC AL SHEET (ASTM A 653, G60 ZINC O SOVE GRADE (MINIMUM 28 DAY COMPRESSIVE E INDICATED, ALL BOND RUNNING CONTINUOUS B. PROVIDE CORNER B OR'S OPI RTAR: A N GRADE REINFORCING SHALL STM C 270 (MINIMUM 2 0.60 28 DAY ID BEAMS S AND LAI BARS AT S: ASTM A 615, GRADE 60
ASTM A 951, EITHER LADDER (
NCH DIAMETER
EL WIRE (ASTM A 82, MINIMUM
SS 1 COATING) OR GALVANIZED
O ZINC COATING) FOLLOWS: AST FURNACE SLAG, AND DUCE THE TOTAL AMOUNT BE USED BY NOT MORE T BE. SUBMITTALS:

1. SHOP DRAWINGS INDI
OF JOISTS, INCLUDIN
ACCESSORIES. REFER TO "
STANDARDS. CONTRACTOR SHALL DE LOADS INDICATED, WITH FOLLOWING: PECTIONS BY INDEPENDENT INSPECTION AGENCY:

BOLTED CONNECTIONS: RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING A 325 OR A 490 BOLTS"

WELDED CONNECTIONS: VISUAL INSPECTION, TESTING AND INSPECTION PER AWS D1.1

VERIFY, WITH ERECTOR PRESENT, ELEVATIONS OF CONCRETE AND MASONRY BEARING SURFACES AND LOCATIONS OF ANCHOR BOLTS AND OTHER EMBEDDED ITEMS. DECK NDICATING LAYOUT, DESIGNATION, LOCATION, DING ANCHORAGE, BRACING, BRIDGING, AND RODS: / NDICATING LAYOUT, MATERIAL PROPERTIES OR GE DETAILS, PANS, AND DECK ACCESSORIES. D STRUCTURAL LOAD TABLES OF MECHANICAL "STANDARD SPECIAL JOISTS CAP WELDING CODE"

R ARCHITECTURALLY DEFLECTION O ASTM F T SPLICE OR CUT OPENINGS IN STEEL DRAWINGS WITHOUT THE PERMISSION (1554, NUTS SPECIFICATIONS FOR SUBMISS 6, 2012 ВE 9 GRADE = L/360 L/240 , 55 FABRICATED, THE SPAN STRAIGHT, $\dot{\omega}$ D. THE AND THE OF T CODES AND S

1. AISI'S "NO
STEEL STORMED SUBMITTALS: SCALES SHOWN ON THE STRUCTURAL CONTRACT INFORMATION ONLY. DIMENSIONAL INFORMATION SCALING THE DRAWINGS. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION. SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED BY THE CONTRACTOR OR OWNER FOR REVIEW BY THE ENGINEER. IF THE CONTRACTOR OR OWNER FAILS TO SUBMIT THE SHOP DRAWINGS, THE ENGINEER WILL NOT BE RESPONSIBLE FOR STRUCTURAL CERTIFICATION AND DESIGN OF THE PROJECT. THE SHOP DRAWINGS SHALL INDICATE ANY DEVIATIONS OR OMISSIONS FROM THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMISSION AND MAKE ALL CORRECTIONS DEEMED NECESSARY. THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL, CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION AND DIMENSION OF CHASES, INSERTS, OPENINGS, SLEEVES, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS WHICH IMPACT THE STRUCTURAL COMPONENTS. WWB: B FORMED CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE AREA OF CONSTRUCTION PREVENT DAMAGE TO THEM. SHOULD DAMAGE OCCUR TO ANY UTILITIES, CONTRACTOR IS REQUIRED TO REPAIR THE DAMAGE TO THE SATISFACTION THE OWNER AT HIS OWN EXPENSE. FALLATION:
WELDING OF
ACCORDANCE
ALL COLD FO
CUTTING OF
SPLICES IN O
DETAILED ON JCTURAL PERFORMANCE REQUIREMENTS:
ALL COLD FORMED METAL FRAMING AND CONNECTIONS SHALL BE DESIGNED,
FABRICATED, AND ERECTED BY THE CONTRACTOR TO SUPPORT LOADS
INDICATED IN "DESIGN LOADS" SECTION.
REFER TO PLANS AND DETAILS FOR MINIMUM SIZE AND SPACING FOR COLD
FORMED METAL MEMBERS.
DEFLECTION LIMITS:
a. EXTERIOR NON LOAD BEARING WALL FRAMING: HORIZONTAL
DEFLECTION OF L/600.
b. ROOF TRUSSES: VERTICAL DEFLECTION OF L/240. COLD FORMED METAL MEMBERS 16 GAUGE OR HA MINIMUM YIELD STRENGTH OF 50 KSI.

COLD FORMED METAL MEMBERS 18 GAUGE OR LA MINIMUM YIELD STRENGTH OF 33 KSI.

GALVANIZING OF ALL COLD FORMED MEMBERS SHREQUIREMENTS OF ASTM A 525 WITH A MINIMUM R ALL MEMBERS, SIGNED AND SEALED BY A REGISTERED PROFESSION/GINEER.
CULATIONS FOR ALL COLD FORMED MEMBERS AND COMPONENTS
CLUDING MEMBER SIZE, GAUGE, LOCATION, CONNECTION, AND LATERAL
ACING DETAILS, SIGNED AND SEALED BY A REGISTERED PROFESSIONAL
GINEER. DRAWINGS INDICATING STANDARDS: NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS" INCLUDING THE "STANDARD FOR COLD) STEEL FRAMING". FORMED META
H AWS D1.1 AN
METAL MEMBE
BERS WITH A TO
FORMED METAL
CONTRACT DRA AREAS SHALL

REAS SHALL

CALVANIZING I

LL PROVIDE SUI

HAN 10 INCHES BE HALL BE CLEANED AND PAINTED WITH ZING REPAIR PAINT AS REQUIRED. E SUPPORT FOR METAL DECK EDGES AT ICHES SQUARE. REFER TO TYPICAL DETAILS INFORMATION. O Z CITY JOINT OUTPATIENT CLINIC GULF COAST HEALTH CARE ODUCTIONS OF ESSORIES NECESSARY TO METAL DECK WHICH IS 22 GA. STRUCTURAL NOTES NAVAL FACILITIES ENGINEERS MUM PROFILE DEPTHS, ER FOOT WIDTH. E WHERE POSSIBLE, PROVIDE PAN CONDITIONS PER SHEARED OR SAW CUT. PERMITTED. E NOT PERMITTED UNLESS LIGHTER: ASTM A 446 WITH WINGS ARE FOR GENERAL L NOT BE OBTAINED BY HALL MEET THE N G 60 COATING. , AND CONNECTION DETAILS REGISTERED PROFESSIONAL ALL BE COMPLETED IN HEAVIER: ASTM A 446 WITH ASTM A 653, STRUCTURAL CONTR. NO. SIDE LAP CONNECTION THE STRUCTURAL ____ SHEET **S001** OR SAW CUT.